# Commonwealth of Kentucky

**Environmental and Public Protection Cabinet**
**Department for Environmental Protection**
**Division for Air Quality**
**803 Schenkel Lane**
**Frankfort, Kentucky 40601**
**(502) 573-3382**

## Title V
## AIR QUALITY PERMIT
**Issued under 401 KAR 52:020**

| | |
|---|---|
| **Permittee Name:** | **Kimberly-Clark Corporation, Owensboro Operations** |
| **Mailing Address:** | **601 Innovative Way, Owensboro, Kentucky 42301** |
| **Source Name:** | **Kimberly-Clark Corporation, Owensboro Operations** |
| **Mailing Address:** | **Same as the above** |
| **Source Location:** | **Owensboro, Kentucky** |
| **Permit Number:** | **V-04-019** |
| **Log Number:** | **52848** |
| **Review Type:** | **Operating** |
| **Source ID #:** | **21-059-00169** |
| **AI #:** | **917** |
| **Work Activity #:** | **APE2004002** |
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| **Regional Office** | **Owensboro** |
| **County:** | **Daviess** |
| **Application Complete Date:** | **February 23, 2005** |
| **Issuance Date:** | **March 30, 2005** |
| **Expiration Date:** | **March 30, 2005** |

**John S. Lyons, Director**
**Division for Air Quality**

*Revised 1/16/2001*

| SECTION | Date Issued | PAGE |
|---|---|---|
| A. PERMIT AUTHORIZATION | March 30, 2005 | 2 |
| B. EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS | March 30, 2005 | 3 |
| C. INSIGNIFICANT ACTIVITIES | March 30, 2005 | 18 |
| D. SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS | March 30, 2005 | 20 |
| E. SOURCE CONTROL EQUIPMENT OPERATION REQUIREMENTS | March 30, 2005 | 21 |
| F. MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS | March 30, 2005 | 22 |
| G. GENERAL PROVISIONS | March 30, 2005 | 25 |
| H. ALTERNATE OPERATING SCENARIOS | March 30, 2005 | 30 |
| I. COMPLIANCE SCHEDULE | March 30, 2005 | 30 |

## SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

# SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**Group 01 (SN-36) Boiler #1**

**Description:** One unit ABCO IND., 265 psig steam generator with low $NO_x$ burner.
Natural Gas fuel only.
Maximum continuous rating: 99.3 mmBTU/hour process heat.
Installation Date: March 1994

## APPLICABLE REGULATIONS:

**Regulation 401 KAR 59:015**, New indirect heat exchangers applies to the visible emissions, the particulate matter and the sulfur dioxide emissions from the above boiler.
**Regulation 401 KAR 60:005**, incorporating by reference Regulation 40 CFR 60.48c(g), [Standards of performance for small industrial-commercial-institutional Steam Generating Units, for units less than or equal to 100 mmBTU/hour but greater than or equal to 10 mmBTU/hour commenced after June 9, 1989] applies to the above boiler for reporting and recordkeeping requirements.

**1. Operating Limitations: NA**

**2. Emission Limitations:**

a. Pursuant to 401 KAR 59:015, Section 4 (2), the opacity of visible emission shall not equal or exceed 20%.
b. Pursuant to 401 KAR 59:015:
   1. Section 4(1)(b), the emission of Particulate Matter shall not exceed 0.33 lb/ mmBTU.
   2. Section 5(1)(c)(1), the emission of Sulfur Dioxide shall not exceed 1.17 lb/ mmBTU.

**Compliance demonstration Method:**

a. The boiler listed above is assumed to be in compliance with the opacity limit while burning natural gas.
b. Particulate Matter and Sulfur Dioxide Emissions:

Emissions in lb/ mmBTU = [(Total Monthly rate gas consumption in MMCF) X (Emission factor listed in Kentucky Emissions Inventory, lb/MMCF) / (Total Hours of operation per month) X (Total Hourly Rated Capacity in mmBTU)]

**3. Testing Requirements:**

Pursuant to 401 KAR 59:005 Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**4. Specific Monitoring Requirements:**

a. The fuel usage shall be monitored on a monthly basis.
b. The monthly hours of operation shall be monitored.

**5. Specific Recordkeeping Requirements:**

a. See the Specific Monitoring Requirements above.
b. Records of the amount of natural gas burned shall be maintained on a daily basis (40 CFR 60.48c(g)).

**6. Specific Reporting Requirements:** None

**7. Specific Control Equipment Operating Conditions:** NA

# SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**02 (SN-4) Tissue Paper Machine No.1**

**Description:**
Emission Point (**SN-4**): One Drum (Yankee) Tissue Dryer with two (2) Air Heaters #1 & #2
Each Air Heater with 20 mmBTU/hr heat capacity
Natural Gas burners only
Process rate: 8.54 Oven Dry tons/hr.
Installation Date: March 1995

**APPLICABLE REGULATIONS:**

**401 KAR 59:010**, New Process Operations applies to the visible and particulate matter emissions from the paper drying operation of the above processes.

**REGULATION DO NOT APPLY**

**401 KAR 59:015**, New Indirect heat exchangers does not apply, because the combustion gases directly contact the paper product for drying.

**1. Operating Limitations:**

Refer to item 2, Emission Limitation and Compliance Demonstration Method.

**2. Emission Limitations:**

a. Pursuant to 401 KAR 59:010, Section 3 (1), the opacity of visible emission shall not equal or exceed 20%.

b. Pursuant to 401 KAR 59:010, Section 3(2), the emission of particulate matter from the paper drying process shall not exceed 13.57 lb/hr.

**Compliance Demonstration Method:**

i. The affected facility is considered to be in compliance with the particulate emission limit as long as the dryer exhaust system (SN-04) is operational at all time.

ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

**3. Testing Requirements:**

Pursuant to Regulations 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division.

## AND OPERATING CONDITIONS

**4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:

a. The total monthly (each calendar month) fuel usage of the dryers, and tonnage of dried paper.
b. The hours per month of operation of both dryers.
c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9

and an inspection of the control equipment must be initiated for any necessary repair. The visual observations and/or method 9 test must be done while the equipment is in operation.

**5. Specific Recordkeeping Requirements:**

See the Monitoring Requirements above.

**6. Specific Reporting Requirements:** NA

**7. Specific Control Equipment Operating Conditions:** NA

# SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS AND OPERATING CONDITIONS

## 03 (SN-28) Paper Reel of Tissue Paper Machine #1

**Description:**

a. Paper Reel for non-stop rolling of dried tissue paper on the dry end of paper machine #1.

b. **Control Equipment**: Kleissler Venturi Scrubber with 98% efficiency emission control.
Process rate: 8.54 Oven Dry tons/hr.
Installation Date: March 1995

**APPLICABLE REGULATIONS:**

**401 KAR 59:010**, New Process Operations applies to the particulate matter emissions.
**401 KAR 59:010**, New Process Operations applies to the visible emissions from the operation of the above processes.

**1. Operating Limitations:**

To preclude a PSD review under requirements of 401 KAR 51:017, the Venturi Scrubber (SN-28) on Dry End shall be operated any time the paper reel for rolling paper is in operation.

**Compliance Demonstration Method:** See Item 4, Specific Monitoring Requirements.

**2. Emission Limitations:**

a. Per 401 KAR 59:010 Section 3(1)(a), no continuous emission into the open air shall be equal to or greater than 20 percent opacity.

b. To preclude PSD review requirement of 401 KAR 51:017, the actual particulate matter emissions shall not exceed 2.0 lb/hr after the Venturi Scrubber.

**Compliance Demonstration Method:**
Monthly emissions shall be calculated and be kept available at plant, and shall be used to calculate the lb/hr emissions limit.

i. Hourly Particulate Emission Rate in lb/hr = [(Hourly Processing Rate in ODST/hr) x (Emission Factor 12.0 lb/Tons) x (1-Eff. 0.98)].
Note: 12.0 lbs/Ton emission factor is calculated based on material balance from the actual particulate emissions before emission control of the rolling process.

ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

**3. Testing Requirements:**

Pursuant to 401 KAR 59:005 Section 2(2), and pursuant to 401 KAR 50:045, Section 1, PM/PM10 process stack emissions from the Venturi Scrubber shall be tested using a Method 5 procedure specified under 401 KAR 50:015 as required by the Division.

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS AND OPERATING CONDITIONS

**4. Specific Monitoring Requirements:**

a. The permittee shall operate the Venturi Scrubber in accordance with the manufacturer's recommendations, and shall monitor and record the following parameters of the scrubber on a daily basis:
   i. Air pressure drop across the scrubber's collector.
   ii. Water flow rate through the scrubber.

b. Monthly tonnage of the tissue paper processed in paper machine #1.

c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9 and an inspection of the control equipment must be initiated for any necessary repairs. The visual observations and/or method 9 test must be done while the equipment is in operation.

**5. Specific Recordkeeping Requirements:**

a. Daily records shall be maintained of the scrubber operating parameters recommended by the manufacturer for its proper operation.

b. See the Monitoring Requirement above.

**6. Specific Reporting Requirements:** NA

**7. Specific Control Equipment Operating Conditions:** NA

## AND OPERATING CONDITIONS

**04 (SN-1 & SN-3) Tissue Towel Paper Machine No. 2**

**Description:**

Emission Point (SN-1): One (1) Natural Gas Burning Air Dryer #1 with 70 mmBTU/hr capacity
One (1) tissue/towel drying Drum #1

Emission Point (SN-3): One (1) Natural Gas Burning Air Dryer #2 with 47 mmBTU/hr capacity
One (1) tissue/towel drying drum #2

Process rate for both dryers total 17.79 Oven Dry tons/hr
Installation Date: Both dryers in January 1997

**APPLICABLE REGULATIONS:**

**401 KAR 59:010**, New Process Operations applies to the visible and to the particulate matter emissions from the operation of the above processes.

**REGULATION DO NOT APPLY**

**401 KAR 59:015**, New Indirect heat exchangers does not apply, because the combustion gases directly contact the paper product for drying.

1. **Operating Limitations:** None

2. **Emission Limitations:**

   a. Pursuant to 401 KAR 59:010, Section 3 (1), the opacity of visible emission shall not equal or exceed 20%.

   b. Pursuant to 401 KAR 59:010, Section 3(2), the emission of particulate matter from the paper drying process shall nor exceed 21.4 lb/hr.

   **Compliance demonstration Method:**

   i. The affected facility is considered to be in compliance with the particulate emission limit as long as the dryer exhausts system (SN-01 and SN-03) are operational at all times.

   ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**3. Testing Requirements:**

Pursuant to Regulations 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division.

**4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:

a. The total monthly (each calendar month) fuel usage of the dryers, and tonnage of dried paper.

b. The hours per month of operation of each dryer.

c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9 and an inspection of the control equipment must be initiated for any necessary repairs. The visual observations and or method 9 test must be done while the equipment is in operation.

**5. Specific Recordkeeping Requirements:**

See the Specific Monitoring Requirement above.

**6. Specific Reporting Requirements:** NA

**7. Specific Control Equipment Operating Conditions:** NA

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS,

## AND OPERATING CONDITIONS

**05 (SN-51) Dry End Pulper Stock Chest**

**Description:** Reel Threading (Winding Reel) of Tissue Paper Machine #2
Process rate: 17.79 Oven Dry tons/hr
Construction commenced: January 1987

**APPLICABLE REGULATIONS:**

**401 KAR 59:010**, New Process Operations applies to the particulate matter and to the visible emissions from the operation of the above process units.

**1. Operating Limitations:**

Refer to item 2, Emission Limitation and Compliance Demonstration Method.

**2. Emission Limitations:**

a. Pursuant to Regulation 401 KAR 59:010, Section 3(2), the emissions of particulate matter shall not exceed 20.4 lb/hr for each of the above process units.
b. Pursuant to Regulation 401 KAR 59:010, Section 3(1), the opacity of visible emissions shall not equal or exceed 20 percent for each of the above process units.

**Compliance Demonstration Method:**

i. The affected facility is considered to be in compliance with particulate emission limit as long as the vacuum thread-up roll and associated dust separator is operational any time the winder reel is in the thread-up mode.
ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

**3. Testing Requirements:**

Pursuant to Regulations 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division.

**4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:
a. The monthly tonnage of the tissue paper processed in paper machine #2.
b. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9

and an inspection of the control equipment must be initiated for any necessary repairs. The visual observations and/or method 9 test must be done while the equipment is in operation.

5. **Specific Record keeping Requirements:**

   See the Specific Monitoring Requirements above.

6. **Specific Reporting Requirements:** NA

7. **Specific Control Equipment Operating Conditions:** NA

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**06 (SN-11) Nine (9) Converting Lines**

**Description:** Tissue and Towel rolls packaging equipment.
Eight (8) converting lines utilize four (4) rotary drum filters vacuuming particulate to a dust collection system.
The (MBFF) converting line is equipped with its own dust removal system.

Maximum process rate from tissue machine #1: 8.54 Oven Dry ton/hr, and Maximum process rate from tissue machine #2: 17.79 Oven Dry ton/hr.

**Control equipment**: Torit Dust Removal with 95% efficiency.
Installation Date: January 1987

**APPLICABLE REGULATIONS:**

**401 KAR 59:010**, New Process Operations applies to the particulate matter and to the visible emissions from the operation of the above process units.

1. **Operating Limitations:**

To preclude a PSD review under requirements of 401 KAR 51:017, a Torit Dust Removal system (SN-11) on eight (8) converting lines, and the ninth converting line (Mix Blend Forming Fiber) with its own dust removal system shall be operated any time the converting line for the cutting and packaging process are in operation.

2. **Emission Limitations:**

a. Pursuant to Regulation 401 KAR 59:010, Section 3(2), the emissions of particulate matter shall not exceed 6.50 lb/hr for each of the above process units.

b. Pursuant to Regulation 401 KAR 59:010, Section 3(1), the opacity of visible emission shall not equal or exceed 20 percent for each of the above process units.

**Compliance Demonstration Method:**

i. The affected facility is considered to be in compliance with particulate emission limit as long as the vacuum vents of the dust collection systems are operational at all time.

ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**3. Testing Requirements:**

Pursuant to Regulations 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division.

4. **Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:

a. The monthly raw material throughput rates of tissue machine #1, and tissue machine #2.
b. The monthly hours of operation (hours operated per month) of the dust collection systems.
c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9 and an inspection of the control equipment must be initiated for any necessary repairs. The visual observations and/or method 9 test must be done while the equipment is in operation.

**5. Specific Record keeping Requirements:**

See the Specific Monitoring Requirements above.

**6. Specific Reporting Requirements:** None

**7. Specific Control Equipment Operating Conditions:** None

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**07 (EU-30) Wastewater Treatment**

**Description**: Wastewater Treatment Plant
0.24 Million gallons/hr Maximum input capacity to produce clean water.
Installed in February 1995, and updated in July 1999.

**APPLICABLE REGULATIONS:**

None

1. **Operating Limitations:** NA

2. **Emission Limitations:** NA

3. **Testing Requirements:** NA

4. **Specific Monitoring Requirements:** NA

5. **Specific Recordkeeping Requirements:** NA

6. **Specific Reporting Requirements:** NA

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**08 (SV-44) Wastewater Treatment Lime Silo**

**Description:** Lime Silo for Wastewater Treatment Plant
Installed in February 1995, relocated in August 1998.

**Control equipment:** Baghouse with 98% efficiency.

**APPLICABLE REGULATIONS:**

401 KAR 59:010, New Process Operations applies to the particulate matter and to the visible emissions from the operation of the above process units.

1. **Operating Limitations:**

For avoidance of PSD requirements of 401 KAR 51:017, the baghouse filter must be in operation any time the lime silo is being filled/emptied.

**Compliance Demonstration Method:** See Item 4, Specific Monitoring Requirements.

2. **Emission Limitations:**

a. Pursuant to Regulation 401 KAR 59:010, Section 3(2), the emissions of particulate matter shall not exceed 16.10 lb/hr.

b. Pursuant to Regulation 401 KAR 59:010, Section 3(1), the opacity of visible emissions shall not equal or exceed 20 percent for each of the above process units.

**Compliance Demonstration Method:**

i. The affected facility is considered to be in compliance with the particulate emission limit as long as the baghouse is operational at all times the material is being handled.

ii. See Item 4 (Specific Monitoring Requirements) below for compliance with opacity limits.

**3. Testing Requirements:** NA

Pursuant to Regulations 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in Regulation 401 KAR 50:015 shall be conducted as required by the Division.

## SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:
a. The monthly total hours of the Lime delivery.
b. The monthly hours of operation (hours operated per month) of the baghouse.
c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9 and an inspection of the control equipment must be initiated for any necessary repairs. The visual observations and/or method 9 test must be done while the equipment is in operation.

**5. Specific Record keeping Requirements:**

See the Specific Monitoring Requirements above.

**6. Specific Reporting Requirements:** None

**7. Specific Control Equipment Operating Conditions:** None

## SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the

permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

| | Description | Generally Applicable Regulation |
|---|---|---|
| 1. | Hydronic Boiler #1 (9 mmBTU/hr) | 401 KAR 59:015 |
| 2. | Hydronic Boiler #2 (9 mmBTU/hr) | 401 KAR 59:015 |
| 3. | Wastewater Treatment Area Space Heater (3.25 mmBTU/hr) | None |
| 4. | WWTA Space Heater (1.5 mmBTU/hr) | None |
| 5. | WWTA Space Heater (0.56 mmBTU/hr) | None |
| 6. | Boiler Room Makeup Air Heater (4.5 mmBTU/hr) | None |
| 7. | Paper Machine #1 Area H&V (6.2. mmBTU/hr) | None |
| 8. | Paper Machine #1 Area H&V (9.5 mmBTU/hr) | None |
| 9. | Paper Machine #1 Area H&V (9.5 mmBTU/hr) | None |
| 10. | Paper Machine #1 Area H&V (9.5 mmBTU/hr) | None |
| 11. | Paper Machine #2 Area H&V (6.2 mmBTU/hr) | None |
| 12. | Paper Machine #2 Area H&V (6.2 mmBTU/hr) | None |
| 13. | Paper Machine #2 Area H&V (6.2 mmBTU/hr) | None |
| 14. | Paper Machine #2 Area H&V (10 mmBTU/hr) | None |
| 15. | Paper Machine #2 Area H&V (10 mmBTU/hr) | None |
| 16. | Paper Machine #2 Area H&V (10 mmBTU/hr) | None |
| 17. | Recycled Fiber Warehouse Heater (6.2 mmBTU/hr) | None |
| 18. | Recycled Fiber Warehouse Heater (6.2 mmBTU/hr) | None |
| 19. | Recycled Fiber Building H&V (3.24 mmBTU/hr) | None |
| 20. | Recycled Fiber Building H&V (3.24 mmBTU/hr) | None |
| 21. | Recycled Fiber Building H&V (3.24 mmBTU/hr) | None |
| 22. | Recycled Fiber Building H&V (3.24 mmBTU/hr) | None |
| 23. | Recycled Fiber HD Pulper | 401 KAR 59:010 |
| 24. | Recycled Fiber HD Pulper | 401 KAR 59:010 |
| 25. | TM1 (SN-10) Mist Eliminator | None |
| 26. | TM1 (SN-33) Vacuum Blower Vent | None |
| 27. | TM2 (SN-6) Mist Eliminator | None |
| 28. | TM2 (SN-32) Vacuum Blower Vent | None |
| 29. | TM2 Mist Eliminator | None |
| 30. | TM2 Vacuum Blower Vent | None |
| 31. | TM2 CVA Pulper (recycled from converting) | None |
| 32. | TM2 Water Impingement Cyclone | None |
| 33. | Two 1,000 Gallon liquid propane storage Tanks | None |
| 34. | One 20,000 CFM Torit Downflow Separator of conveyor hoppers | 401KAR 59:010 |
| 35. | Sludge Silo | None |
| 36. | One 10,800 gallon Hydrosulfite bleaching in No-Vent tower | None |
| 37. | One 16,880 gallon hydrogen peroxide process tank | None |
| 38. | Recycled Fiber of Laboratory area with hood vent | None |
| 39. | Four converting area of water-based Glue Units | None |

## SECTION C - INSIGNIFICANT ACTIVITIES

| | | |
|---|---|---|
| 40. | Acid battery charging area | None |
| 41. | Two Parts Cleaning Station (Petroleum-based cleaner only) | None |

| | | |
|---|---|---|
| 42. | One Vacuum cleaning system for Converting area | None |
| 43. | Two maintenance shops with indoor welding | None |
| 44. | One closed-loop cooling system (glycol ether, HFC 123 refrigerant) | None |
| 45. | Five non-Chromium Cooling Towers | None |
| 46. | One wastewater $Co_2$ degasifier | None |
| 47. | One wastewater treatment Lab. Hood | None |
| 48. | One 2,000 gallon used oil storage tank | None |
| 49. | Two HP diesel pumps (model JV-14 MCS) for fire pump-house | None |
| 50. | Two 300 gallon diesel fuel storage tanks | None |
| 51 | One 100 gallon diesel fuel tank | None |
| 52. | One 150 KW diesel Generator (emergency backup) | None |
| 53. | One 7,000 gallon Surfactant storage Tank | None |
| 54. | One 7,000 gallon Methylene phosphoric acid storage Tank | None |
| 55. | One 8,000 gallon Sulfuric Acid (93%) storage Tank | None |
| 56. | One 1900 gallon Sulfuric Acid (1-5%) storage Tank | None |
| 57. | One 7,000 gallon Borol solution storage Tank | None |
| 58. | One 7,000 gallon Sodium bisulfate storage Tank | None |
| 59. | One 8,000 gallon Sodium Hydrosulfite Storage Tank | None |
| 60. | One 7,000 gallon Cationic polymer storage Tank | None |
| 61. | One 7,000 gallon Anionic polymer storage Tank | None |
| 62. | One 8,800 gallon Brine storage Tank | None |
| 63. | One 8,000 gallon Sulfuric Acid (93%) storage Tank | None |
| 64. | One 15,000 gallon Urea Nutrient (20-50%) storage Tank | None |
| 65. | Indoor Chemical and Process Tanks | None |
| 66. | One Rooftop HVAC Unit 0.15 mmBTU/hr Natural Gas | None |
| 67. | One Water-Heater 0.85 mmBTU/hr | None |
| 68. | Water Treatment Chemicals | None |
| 69. | One 2,500 gallon primary clarifier Polymer Storage Tank | None |
| 70. | One 2,500 gallon primary clarifier Polymer Storage Tank | None |
| 71. | One 6,000 gallon defoamer storage Tank | None |
| 72. | One 8,000 gallon Optical Brightner storage Tank | None |
| 73. | Three 750,000 gallon water Process storage Tanks | None |
| 74. | One 4,600 gallon sodium hypochlorite (15%) Storage Tank | None |
| 75. | One powered Vent for combined Sludge wet well | None |

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the material incorporated by reference in 401 KAR 52:020,

Section 10; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. Emissions of SO2, and PM, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

## SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place as defined in this permit, and time of sampling or measurements.
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.
   [Material incorporated by reference by 401 KAR 52:020, Section 1b (IV)1

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Material incorporated by reference by 401 KAR 52:020, Sections 1b(IV) 2 and 1a(8)]

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control quipment), practice, or operation;
   b. To access and copy any records required by the permit:
   c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
   d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
   e. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.
   [Material incorporated by reference by 401 KAR 52:020, Section 1b (V )1.]

## SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6. [Material incorporated by reference by 401 KAR 52:020, Section 1b V 3, 4.]

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
   a. Identification of the term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period, and
   e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

## SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

**Division for Air Quality**
**Owensboro Regional Office**
**3032 Alvey Park Drive W, Suite 700**
**Owensboro, KY 42303**

**U.S. EPA Region IV**
**Air Enforcement Branch**
**Atlanta Federal Center**
**61 Forsyth St.**
**Atlanta, GA 30303-8960**

**Division for Air Quality**
**Central Files**
**803 Schenkel Lane**
**Frankfort, KY 40601**

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the division by the source or its representative within forty-five days after the completion of the fieldwork.

# SECTION G - GENERAL PROVISIONS

**(a)** General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 3 ]

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 6 ]

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon requested by the cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 7,8 ]

5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority. [Material incorporated by reference by 401 KAR 52:020, Section 7(1)]

## SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 14]

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 4 ]

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 15)b ]

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6). [Material incorporated by reference by 401 KAR 52:020, Section 1a, 10]

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:020, Section 11(3)(b)]

11. This permit does not convey property rights or exclusive privileges. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 9]

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 52:020, Section 11(3)(d)].

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 52:020, Section 11(3)(a)]

15. This permit consolidates the authority of previously issued PSD, NSR and minor source preconstruction permit terms and conditions for various emission units and incorporates all requirement of existing permits into one single permit for this facility.

16. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of a permit shall be considered compliance with:
    (a) Applicable requirements that are included and specifically identified in the permit and
    (b) Non-applicable requirements expressly identified in this permit.

## SECTION G - GENERAL PROVISIONS (CONTINUED)

**(b)** Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the division. [401 KAR 52:020, Section 12]

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the division after the completeness determination has been made on any application, by whatever deadline the division sets. [401 KAR 52:030 Section 8(2)]

**(c)** Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

**(d)** Construction, Start-Up, and Initial Compliance Demonstration Requirements N/A

**(e)** Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

**(f)** Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   a. An emergency occurred and the permittee can identify the cause of the emergency;

b. The permitted facility was at the time being properly operated;

## SECTION G - GENERAL PROVISIONS (CONTINUED)

c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
e. This requirement does not relieve the source from other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement. [401 KAR 52:020, Section 24(3)]

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:020, Section 24(2)]

**(g)** Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

**RMP Reporting Center**
**P.O. Box 3346**
**Merrifield, VA, 22116-3346**

2. If requested, submit additional relevant information to the division or the U.S. EPA.

**(h)** Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.

## SECTION G - GENERAL PROVISIONS (CONTINUED)

e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

## SECTION H - ALTERNATE OPERATING SCENARIOS

None

## SECTION I - COMPLIANCE SCHEDULE

N/A